CERTIFIED WATERTIGHT
WATER SYSTEMS COUNCIL

221 NORTH LA SALLE STREET
CHICAGO, ILLINOIS 60601
TELEPHONE 312/346-1600

May, 1980

CERTIFIED PITLESS ADAPTERS AND PITLESS UNITS

The following products have been tested for internal and external watertightness under the provisions of Pitless Adapter Standard No. 1 (PAS-1) dated April, 1968. As provided in these "Recommended Standards," the testing was conducted by a private testing laboratory under the supervision of a Board of Examiners consisting of both industry and non-industry personnel. Based on the results of these tests, these products meet or exceed the watertight requirements of the "Recommended Standards" and, accordingly, have been so certified by the Pitless Adapter Division.

Full information on the "Recommended Standards," and on the testing and certification program are available through the Division Office.

THE AMERICAN GRANBY COMPANY

Harvard Line -- PT100 and PT600

BAKER MANUFACTURING COMPANY

PS Units -- 3 to 8-in. Well Sizes

PJ Units -- Single Pipe Jets, Shallow Well
2-Pipe Jet, Packer Jet

PA -- Clamp-On Adapter

PR Units -- 2 to 8-ft. Buried Depth

PL Clamp-On and Weld-On Adapters

C4 Watertight Cap

BA -- Adapters Sub

DAYTON PRECISION MANUFACTURING COMPANY

Model DPM-001A Unit
Model DPM-002A Unit
Model DPM-001B Unit

Model DPM-002B Unit
Model DPM-003B Unit
Model DPM-004C Unit
Model DPM-005C Unit

Model 2" 004B Unit
Jet Adapter 1x1½ 005B
002B Little Giant Pitless Adapter

DICKEN MANUFACTURING COMPANY

Model S. Series Adapters
(S-10, S-12, S-20, 2X)

Model LD-S Series Adapters
(LD-S-10, LD-S-10P, LD-S-12, LD-S-12P)

Model CW-Series Adapters
(CW-4-10, CW-5-10, CW-6-10)
(CW-4-10WA, CW-4½-10WA, CW-5-10WA)

Model WTCC Series Caps
(WTCC-4, WTCC-5, WTCC-56, WTCC-6, WTCC-7, WTCC-8)

Model W Series
(W-4, W-5, W-56, W-6, W-7)

Compression Coupling
SA 4"-5" Eccentric Standpipe Adapter

=over=

ANACONDA Copper Co[illegible]

Internal Correspo[illegible]nce

Date: September 10, 1981

Subject: North Lily Project - Water Right

From/Location: J. Beck

To/Location: D. Arnolds

Attached is a copy of the "Amended Memorandum Decision" regarding our approved water right for North Lily.

You will note this includes specification of "Leaching Operations" in paragraph one; this was inadvertently omitted by the State of Utah in the original issue dated July 15, 1981 (see my memo to you dated July 29, 1981).

I will maintain this document in my files unless you feel another designation is more appropriate.

J.M. Beck

JMB/dl

cc: G. Rupp
R. Newell
J. Suttie
E. Schneider
D. Kittel
R. Krablin

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

IN THE MATTER OF APPLICATION)
NUMBER 55809 (68-2315))
) AMENDED
) MEMORANDUM DECISION

Application Number 55809 (68-2315) was filed by Anaconda Copper Company to appropriate 0.3345 cfs. of water from a 12-inch well, located at a point North 5150 feet and West 3875 feet from the SE Corner of Section 35, T10S, R3W, SLB&M to be used for the domestic purposes of 30 persons within a mining operation, for leaching operations, dust suppression, and an aid to reclamation activities related to the mining operations of silver and gold. All uses are within the S½S½ of the SE¼, Section 26; the NW¼NE¼, SE¼NE¼, Section 35; both T10S, R3W, SLB&M.

The application was advertised in the Nephi Times-News from April 9, 1981 through April 23, 1981 and was not protested.

The applicant was given permission to drill a test well at the site and suitable water for appropriation was found. In reviewing this file, the State Engineer realizes that the location of this well is within the Sevier Desert Drainage Basin, but is relatively isolated from other water rights, especially wells that are located within the Sevier Desert Drainage Basin. In discussing the application with the applicant, the State Engineer has decided that it would be feasible and in the best public interest to only approve this application for a limited time period corresponding to the duration of the project which the applicant intends to use the water for. This time period has been decided upon to be approximately six years from the approval date of the application. According to Section 73-3-8 of the Utah Code Annotated, the State Engineer is allowed to approve applications for appropriation for a limited time period.

It is, therefore, ordered and Application Number 55809 (68-2315) is hereby APPROVED subject to the condition that this application will be only approved for a period of six years from the date of approval by the State Engineer. At that time, the applicant may wish to file for an extension of time if the project is not completed. Otherwise, the application will lapse and the water will revert back to the public.

This decision is subject to the provisions of Section 73-3-14, Utah Code Annotated, 1953, which provides for plenary review by the filing of a civil action in the appropriate district court within sixty days from the date hereof.

Dated this 4th day of September, 1981.

Dee C. Hansen

Dee C. Hansen, P.E., State Engineer

DCH:MSA:slf

EXHIBIT B- DESCRIPTION OF SERVICES

Contract No. UTNL-8102

1.0 Background

The Anaconda Copper Company is developing a tailings reprocessing facility near Eureka, in Juab County, Utah. In August 1981 a production water well was constructed to provide process and potable water supplies to the project. Aquifer testing of the well is required to determine specific capacity of the well and to determine pumping facility requirements.

The well was constructed by Billings Drilling Company of Salt Lake City, Utah to the following specifications:

a. Total Depth - 530 feet

b. Bore Hole Diameter - 16 inch

c. Casing Schedule - 8 inch I.D., 0.277 wall steel casing from 18 inches above natural ground surface to 450 feet

d. Screen - 8 inch I.D. 60 slot Johnson Division UOP galvanized set from 450 to 530 feet (80 feet total)

e. Surface Seal - sand cement grout to a depth of 100 feet

f. Gravel Pack - minus ¼ inch pea gravel from 100 feet to 420 feet. Foundation sand (8/12 grade) placed from 420 feet to 530 feet (90 feet)

g. Five Foot cement plug below casing. Security cap at surface.

h. Well developed for approximately 12 hours under supervision of Water, Waste and Land Inc. Fort Collins, Colorado 303/482-1147.

2.0 Scope of Services

Contractor shall provide experienced personnel and necessary equipment for the subject aquifer testing. This is to include a pump, flow meters, generators, piping and any other supplies as needed. Anaconda has contracted the services of Water, Waste and Land Inc. to inspect and supervise the aquifer testing. They will furnish personnel and a depth recorder. The Services shall include the following:

2.1 Step draw down tests consisting of three (3) separate rates for two (2) hours each rate.

2.2 Determination of final testing rate.

2.3 Continuous draw down test for a period of 48 to 72 hours or until stabilized.

2.4 Rig shall remain in place during the period of monitoring recovery.

2.5 Items Contractor shall provide are:

a. Pump with maximum capacity of 200 gpm capable of pumping down in the 25 to 50 gpm range. Setting at 440 feet.

b. Sufficient discharge pipe to enable discharge water to be placed at least 150 feet away from the well.

c. Flow meters - instantaneous and continous flow.

3.0 Daily Report

Contractor shall provide the construction inspection Contractor with a daily log sheet to include details of hours pumping, hours down due to breakdown, standby time and such other pertinent data as may be requested by the construction inspection Contractor.

Prior to completion of the Services, Contractor shall submit a copy of all data generated in the performance of the Services to Anaconda's Representative.

4.0 Schedule

All Services shall be completed not later than September 30, 1981.

EXHIBIT B

DESCRIPTION OF WORK

WATER SUPPLY WELL CONSTRUCTION

CONTRACT NO. ME-116

NORTH LILY PROJECT

1.0 Background

The Anaconda Copper Company proposes to reprocess the mill tailings at its North Lily project site. The project site is located in the Tintic Valley about three miles south of Eureka at the junction of Utah State Highway 36 and U.S. Highways 6 and 50.

Ground water will be used as the source of potable and process water supply. A water exploration well, located about one-half mile west of the proposed reprocessing site, was drilled by Drilling Services, Inc. This well was completed to a depth of 525 feet and yeilded 50 gpm when air-lifted via a double-tube drill string. The static water level was at 330'. Attached is a copy of the drilling log prepared by Water, Waste & Land, Inc. (WW&L).

During the drilling of the exploration well, cuttings samples were collected for sieve analysis. The well was completed with perforated 1-inch diameter PVC casing to serve as an observation well during the testing of the proposed production well.

Based on the hydrogeologic information compiled for the exploration well, WW&L prepared specifications for a production well to be located 50 feet from the exploration well.

2.0 Scope of Work and Well Location

The Contractor is to construct and develop an industrial water well in the NE1/4 of the NW1/4 of Section 35, Township 10 South, Range 3 West, SLBM, Juab County, Utah. Refer to the USGS Tintic Junction 7.5 minute topographic map.

3.0 Drilling Method and Equipment

The Contractor shall select the drilling method and provide all equipment that will assure proper construction and development of the production well in accordance with construction specifications listed herein and with State of Utah Public Drinking Water Regulations.

4.0 Stratigraphic Log

The Contractor shall assist the Engineer (WW&L) in preparing a stratigraphic log. This log will serve to verify the stratigraphy encountered in the exploration hole and provide the information required to complete Utah's "Report of Well Driller" form. A rigid sampling program during the construction of the production well is not proposed since samples were collected from the exploration hole. However, the Contractor shall cooperate with the Engineer in the collection of any samples required to assure proper completion and logging of the production well.

5.0 Daily Driller's Report

During the drilling, completion and development of the well, a daily driller's report shall be maintained and delivered upon request to the Project Representative at the well site. The daily report shall include the number of feet drilled, number of hours on the job, hours of shutdown due to breakdown, type of drilling fluid/additives used, description of any major problems encountered, depth or location of lost drilling fluids, feet of casing and screen set, type of development method used, and such other pertinent data as may be requested by Anaconda or the Engineer.

6.0 Well Construction Specifications

6.1 Total depth - 530 feet

6.2 Bore hole diameter - 15 inch

6.3 Casing schedule - 8 inch ID, 0.277 or 0.322 wall steel well casing set from 18 inches above ground surface to 450 feet

6.4 Screen - 8 inch ID, 60 slot Johnson Division UOP stainless steel set from 450 to 530 feet (80 feet total)

6.5 Gravel Pack - 8/12 grade Fountain sand placed from 420 to 530 feet (90 ft.) by reverse circulation

6.6 Surface Seal - Sand cement grout to a depth of 100 feet. Grout should not interfere with installation of a pitless adapter unit.

6.7 Top of Casing - Install a suitable threaded or flanged cap or compression seal upon completion of the well.

7.0 Well Development

The Contractor shall develop the well by such methods as will effectively extract from the water-bearing formation the maximum practical quantity of sediment and drilling mud in order to bring the well to maximum efficiency and to a sand-free condition. Development of the well shall be continued until the Engineer is satisfied that the water is clear and sand-free. The Engineer may require additional development work aimed to further improve the specific capacity of the well.

The Work shall be completed no later than August 31, 1981.

ANACONDA Copper Comp
555 Seventeenth Street
Denver, Colorado 80217
Telephone: 303 575-5555

February 13, 1981

State of Utah, Dept. of Natural Resources
Division of Water Rights
200 Empire Building
231 East 400 South
Salt Lake City, Utah 84111

Gentlemen:

The Anaconda Company is hereby submitting for your consideration the enclosed Application to Appropriate Water for its proposed North Lily Project to be located aproximately three miles south of Eureka in Juab County. Also enclosed is a check to cover the required fee of $30.00

We are aware of the current policy regarding water appropriation in the subject area and would like to bring to your attention pertinent information relative to the duration of use of the water: the North Lily Project will be a precious metal recovery operation utilizing mill tailing and possibly mine dump material. It is expected that the material present will be treated within three to five years, therefore, project life including construction and demobilization should not exceed five to six years.

We hope the information provided is satisfactory and trust that it will receive your prompt consideration. If I can provide any additional information, please call me at (303) 575-4360.

Cordially yours,

J.M. Beck

J.M. Beck
Evaluation Engineer (Mining)
Anaconda Copper Company

JMB/dl

bcc: J. Anderson
D. Arnolds
D. Kittel
R. Newell
G. Rupp

Form 97 2M 10-70

Application No. .....

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☒ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☒ Other Uses ☐
2. The name of the applicant is The Anaconda Company
3. The Post Office address of the applicant is 555 17th Street, Denver, Colorado 80217
4. The quantity of water to be appropriated 0.3345 second-feet and/or N/A acre-feet
5. The water is to be used for Mining (Major Purpose) from Jan. (Month) 1 (Day) to Dec. (Month) 31 (Day)
   other use period Domestic (Minor Purpose) from Jan. (Month) 1 (Day) to Dec. (Month) 31 (Day)
   and stored each year (if stored) from N/A (Month) (Day) to N/A (Month) (Day)
6. The drainage area to which the direct source of supply belongs is ..... (Leave Blank)
7. The direct source of supply is* Underground Water (see page 2) (Name of stream or other source)
   which is tributary to N/A, tributary to N/A

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Juab County, situated at a point* By rectangular coordinates, north 5150 feet and west 3875 feet from the southeast corner of Section 35, Township 10 South, Range 3 West, SLB&M

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of see page 2

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

7. Area concerned is an ephimeral flow classification. Actual point of diversion will be by well from the alluvium aquifer underlying the Tintic Valley at a depth of approximately six hundred (600) feet.

9. Well Description: The diverting and carrying works will consist of a twelve (12) inch diameter well between five hundred (500) and six hundred (600) feet deep and three thousand (3000) feet of conveyance pipe to place of use.

12. Land Ownership: North Lily Mining Company, a Utah corporation, 555 17th Street, Denver, Colorado 80217. Applicant will lease the property from the owner.

15. Project site is former location of Tintic Smelter & Ore Sampling Co., operational during the period 1907-1915. Slag heaps and mill tailings deposited on the surface will be processed by leaching to extract precious metal values. The water volume required will be consumed primarily for the purpose of mineral beneficiation. As such "mining" will be conducted above natural ground level. The operation will consist mainly of the leach operation; tailing products will be adequately disposed of so as not to affect the aquifer. Project life is expected to be 3 to 5 years.

17. Domestic purposes will include drinking water, sanitary facilities, etc. for a work force of approximately thirty (30) persons. No one is expected to live on the property.

19. A certain quantity of water may be required for dust suppression on access roads and at load/dump points, or to reduce particulate emissions. In addition, upon project abandonment, some quantities of water may be required for small-scale "spot" irrigation to aid in site reclamation.